

What is claimed is:

1. A fiber-reinforced plastic molded article including a surface layer (A) containing a polymer material, an intermediate layer (B), and a fiber-reinforced plastic layer (C), wherein

(1) said intermediate layer (B) is composed of a cured product of an intermediate layer composition comprising a curable resin composition including a polymerizable unsaturated monomer and a polymerization curable unsaturated resin, a filler, and a thixotropic agent,

(2) said curable resin composition is able to form a casting plate having a tensile elongation percentage of 2 to 50% and a Barcol hardness (B value) of 50 or more by its curing,

(3) the content of said filler is 30 to 150 parts by weight relative to 100 parts by weight of the curable resin composition, and

(4) the content of said thixotropic agent is 1 to 4 parts by weight relative to 100 parts by weight of the curable resin composition.

2. A fiber-reinforced plastic molded article according to claim 1, wherein said filler contains a hollow filler having a mean particle size of 5 to 200  $\mu\text{m}$ .

3. A fiber-reinforced plastic molded article according to claim 1, wherein said curable resin composition has a gelation time of 10 to 30 minutes and a viscosity of 20 to 40 poise.

4. A fiber-reinforced plastic molded article according to claim 1, wherein said curable resin composition has a gelation time of 3 to 8 minutes and a viscosity of more than 40 but no more than 100 poise.

5. A fiber-reinforced plastic molded article according to claim 1, wherein said polymerization curable unsaturated resin is at least one type selected from a group including epoxy(meth)acrylate resin, urethane(meth)acrylate resin, and unsaturated polyester.

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6. A fiber-reinforced plastic molded article according to claim 1, wherein said curable resin composition is able to form a casting plate having a tensile elongation percentage of 3 to 10% and a Barcol hardness (B value) of 50 to 95 by its curing.

7. A fiber-reinforced plastic molded article according to claim 1, wherein said curable resin composition is able to form a casting plate having a Heat Deflection temperature of 60°C or more, a tensile strength of 10 MPa or more, and a Barcol hardness (A value) of 30 or more.

8. A fiber-reinforced plastic molded article according to claim 1, wherein said filler is calcium carbonate powder.

9. A fiber-reinforced plastic molded article according to claim 1, wherein said surface layer (A) is composed of a cured product of a gelcoat resin.

10. A molding mold equipped with the fiber-reinforced plastic molded article according to claim 1.

11. A method of producing a fiber-reinforced plastic molded article comprising:

- (1) forming a surface layer (A) with a gelcoat resin on a mold inner surface;
- (2) spraying an intermediate layer composition onto said surface layer (A) followed by curing to form an intermediate layer (B); and
- (3) curing a fiber-reinforced plastic layer composition including a fiber reinforcing material and a curable resin composition containing a polymerizable unsaturated monomer and a polymerization curable unsaturated resin on said intermediate layer (B) to form a fiber-reinforced plastic layer (C); wherein

said intermediate layer composition includes a curable resin composition containing a polymerizable unsaturated monomer and a polymerization curable unsaturated resin, a filler, and a thixotropic agent,

said curable resin composition is able to form a casting plate having a tensile elongation percentage of 2 to 50% and a Barcol hardness (B value) of 50 or more by its curing,

the content of said filler is 30 to 150 parts by weight relative to 100 parts by weight of said curable resin composition, and

the content of said thixotropic agent is 1 to 4 parts by weight relative to 100 parts by weight of said curable resin composition.